

SECRET

16 DEC 69 20 10z

P 161939Z
FM NPIC
TO SSO AUG

OUT 68983

25X1

AFSSO PACAF
AFSSO ACIC
AFSSO FTD
AFSSO USAFE
CNO
OPCEN
FICEUR

ZEM

T O P S E C R E T T I T T

S CITE NPIC 7623.

ALSO FOR 544 ARTW.

SUBJECT: CAMERA INFORMATION FOR MISSION 1108-1

1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS, DUAL STELLAR CAMERAS, AND AN INDEX CAMERA.

2. CAMERA DATA

A. MAIN UNITS

FOCAL LENGTHS (MM)	PAN CAMERAS	PORT HORIZONS	STBD HORIZONS
FWD	609.735	55.014	55.018
AFT	609.575	55.111	55.243

FILTERS

PAN FWD	PRIMARY	W-25
PAN FWD	ALTERNATE	W-25
PAN AFT	PRIMARY	W-21
PAN AFT	ALTERNATE	W-23
FWD STBD	HORIZON	W-25
FWD PORT	HORIZON	W-25
AFT STBD	HORIZON	W-25
AFT PORT	HORIZON	W-25

APERTURE

STBD	HORIZON	F/8.0
PORT	HORIZON	F/6.3

FILM

FWD	3404
AFT	3404 AND SO-242 COLOR

DYNAMIC RESOLUTION

FWD	HIGH	CONTRAST	234
FWD	LOW	CONTRAST	188
AFT	HIGH	CONTRAST	224
AFT	LOW	CONTRAST	139

UNIT NUMBER FWD 317 AFT 316

B. DISIC UNIT NO 12

FOCAL LENGTHS (MM)	PORT STELLAR	STBD STELLAR
	75.922	76.224
FILTER (WRITTEN)	NONE	NONE
EXPOSURE (SEC)	1.5	1.5

SECRET

GROUP 1
Excluded from automatic
downgrading and
declassification

21

FILM 3401 3401 3400

3. LENS DISTORTION (PIN CUSHION) (MM)

A. MAIN UNITS

ANGLE OFF AXIS (DEG)	3	2	1	0	359	358	357
FWD	02	01	0	0	0	02	02
AFT	01	0	0	0	0	01	04

B. HORIZON CAMERA DISTORTION

	FWD PORT	FWD STBD	AFT PORT	AFT STBD
RADICAL 10 DEG	.01	.01	.005	.01
20 DEG	.05	.05	.04	.05
TANGENTIAL	.015	.03	.016	.02

4. CAMERA ANGLES

A. ANGLE BETWEEN PAN CAMERAS 30 DEG 34 MIN. 52.40 SEC.

3. DEPRESSION ANGLES BETWEEN HORIZONS AND PAN CAMERAS

	15 DEG	34 MIN	38.53 SEC
FWD PORT	15 DEG	34 MIN	38.53 SEC
FWD STBD	15 DEG	46 MIN	29.00 SEC
AFT PORT	14 DEG	52 MIN	27.21 SEC
AFT STBD	14 DEG	24 MIN	04.84 SEC

C. ANGLES STELLAR AND INDEX CAMERA

STBD STELLAR AND INDEX 99 DEG 59 MIN 55.0 SEC

PORT STELLAR AND INDEX 100 DEG 00 MIN 27.5 SEC

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTRION COMPENSATION DATA

PASSES	REF LEVEL	AMP LEVEL
1D	2	16
6D THRU 14D	3	16
21D	1	16
22D THRU 30D	1	17
37D	2	17
39D, 40D	2	18
48D	3	18
53D THRU 73D	3	10
74D THRU 85D	4	11
87D THRU 103D	4	8

FOR ALL PASSES PRIMARY PERIOD 3798 SECONDS, SECONDARY PERIOD 2626, SECONDARY RAMP FACTOR .058000

7. PROGRAM TIME DATA

PASS	DAY	CAMERA ON TIME (ZULU TIME)			PROGRAM ON TIME	PROGRAM
		HR	MIN	SEC	UP RAMP SEC	DURATION SEC
1D	04	23	04	12	1490	28
6D1	05	06	27	02	1622	53
6D2	05	06	32	08	1929	118
6D3	05	06	35	27	2127	116
7D	05	08	01	59	2010	110
8D	05	09	24	25	1651	134
11D	05	13	59	49	2252	141
14D1	05	18	19	20	1908	58
14D2	05	18	38	25	3054	57
21D	06	04	36	41	1781	53
22D	06	06	04	02	1708	124
23D	06	07	34	52	1845	70
24D	06	09	01	15	1714	233
25D1	06	-0	35	34	2059	76

--3--

25D2	06	10	39	34	2299	41
30D	06	17	56	19	1945	35
37D	07	04	13	49	1828	189
39D	07	07	09	33	1808	296
40D	07	08	38	33	1842	157
48D	07	20	30	40	2144	43
53D	08	03	48	23	1850	220
54D	08	05	22	13	2165	70
55D1	08	06	47	45	1934	56
55D2	08	06	50	27	2146	64
55D2	08	06	52	40	2279	52
56D	08	08	16	04	1970	44
57D	08	09	44	34	1966	99
68D	09	01	57	27	1863	88
69D	09	03	27	06	1934	112
70D	09	04	58	51	2129	219
71D1	09	06	23	24	1892	116
71D2	09	06	27	06	2114	172
73D	09	09	19	59	1816	178
74D	09	10	55	36	2293	135
76D	09	13	55	39	2537	130
79D1	09	18	14	45	2213	75
79D2	09	18	20	06	2534	47
85D	10	03	01	52	1953	46
87D1	10	05	58	47	1897	74
87D1	10	06	02	35	2125	207
88D2	10	07	27	57	1936	53
88D2	10	07	33	16	2255	46
89D	10	08	56	41	1946	176
90D	10	10	31	50	2343	153
91D	10	12	12	35	3075	194
95D1	10	17	53	35	2286	33
95D2	10	17	57	31	2513	40
95D3	10	18	10	52	3324	35
103D1	11	05	36	56	1950	98
103D2	11	05	41	50	2245	98
103D2	11	05	45	01	2436	93

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
9	241106.651	37767.0990	-----
16	279981.229	76641.7111	.034
25	326089.671	36359.1935	.040
32	365008.076	75268.6325	.034
41	411487.362	35347.9589	.040
48	449933.530	73794.1603	.033
57	496037.028	33547.6983	.040
65	3398.134	77729.7546	.039
73	44290.881	32222.5368	.035
81	88365.749	76297.4428	.038
90	134962.305	36094.0384	.040
97	173378.797	74910.5636	.033
106	219564.653	34696.4591	.040

NOTE: ALL "DIFFERENCE" VALUES ARE PLUS.

GP-1

T O P S E C R E T

END OF MESSAGE